

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III 1650 Arch Street Philadelphia, Pennsylvania 19103-2029

September 4, 2013

Ms. Michelle Falesch Enercon Services, Inc. 2056 Westings Avenue Suite 140 Naperville, IL 60503

Re: Freedom of Information Act Request: EPA-R3-2013-7817

Dear Ms. Falesch:

This is in response to your Freedom of Information Act request listed above, regarding 3775 Main Street Property.

/X / The Office Of Hazardous Site Clean-up Division is enclosing records in response to your request.

/ / The Resource Conservation and Recovery Program, the Toxics Programs Branch, and the Pesticides/Asbestos Programs Branch found no records in response to your request.

/ / The Water Protection Division found no records in response to your request.

PLEASE NOTE:

If any Program(s) listed above has been checked, a response from that Program(s) <u>is enclosed</u> along with a billing invoice for the information provided if appropriate.

You may appeal this response to the National Freedom of Information Officer, U.S. EPA Records, FOIA and Privacy Branch, I200 Pennsylvania Avenue, NW (2822T), Washington, DC 20460, Fax: (202) 566-2147, E-mail: hq.foia@epa.gov. Only items mailed through the United States Postal Service may be delivered to 1200 Pennsylvania Avenue, NW. If you are submitting your appeal via hand delivery, courier service or overnight delivery, you must address your correspondence to 1301 Constitution Avenue, N.W., Room 6416J, Washington, DC 20004. Your appeal must be made in writing and it must be submitted no later than 30 calendar days from the date of this letter. The Agency will not consider appeals received after the 30 calendar day limit. The appeal letter should include the EPA-R3 number listed above. For quickest possible handling, the appeal letter and its envelope should be marked "Freedom of Information Act Appeal."

If you have any questions, please contact me at 215-814-5553.

Sincerely,

Richard Van Holt

Freedom of Information Officer

Holt

Site Assessment CERCLIS Data Entry Form EPA Region III

Site Name: Weirton Steel Ch	romia Apills
Site ID#: 03 0 5 8 90 DSN/ State ID: (11/25) SSID/	
Site-L	evel Data
Modify CERCLIS Site Information: (enter changes for site location	or site type information)
Edit Non DPC Stalus to Ry	
Non-NPL Status: (Verify with list of valid NPL/Non-NPL values)	SS Status Change Date: 5//3/10
Merge Site/ Aggregate Site:	
(When merging or aggregating a site, id	entify Parent/ Child relationship - See Removal Info. Management Assistant)
Archive (Enter FAD flag & FAD date when Archiving site)	
(Check that there are no Prohibited Open Actions before Archiving)	Archive Date:
ERS Exclusion (An ERS Exclusion Determination Form must be completed)	ERS Exclusion Date:
NFFA (No Further Federal Action)	NFFA Date:
RCRA Deferral Special Initiative: ☐ Lead Confirmed	New Decision
Action-l	_evel Data
Action Name Lead	Start Date Compl.Date Qualifier
Pre-CERCLIS Screening (HX) F EP FF S	<u> </u>
Discovery (DS) F EP FF S TR	<u> </u>
Preliminary Assessment (PA) F EP S SN TR	. 1 I AD F G H L N W DN B SA
Fed Fac Preliminary Assessment Review (RX) FEP STR	
Site Inspection (SI) F EP S TR	1 / / ADFGHLNW DN BSA
Fed Fac Site Inspection Review (TY) FEPSTR	// / ADHLNDNBSA
Expanded Site Inspection (ES) F EP S TR	J / / A D F G L N W DN B SA
Fed Fac ESI Review (TZ)	/ / / ADGLNDNBSA
ESI/RI (SS) F EP MR PS RP S SN	TR // // ADFGLNWDNBSA
HRS Package (HR) F EP FF S TR	
Other Cleanup Activity (VA) (Enter Subaction below) FF SR PS RP SE S SN	TR // // ADFHLNWDNB
Comprehensive Site Remedy Construction Selection	*
Post-Construction Design Short Term Maintenance Cleanup	
Site Reassessment (OO) F EP S TR	
Laboratory Support (LA) (add only when using FEP FF MR SR PS RP S START Contract)	D \$ \$N TR
Start Date - date site is initiated Completion Date - date site is archived AW 5/13/16	
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13/2010	X40 / 1 ale 3/3/10
Site Assessment Manager (SAM) Signature Date	Information Mgmt. Assistant Signature Date
5-20-10	Just d/mm 16/8/10
Site Assessment Branch Enjoy Signature Date	GPRA/Data Quality Coordinator Signature Date

Site Assessment CERCLIS Data Entry Form EPA Region III

See Code Guide for Instructions

The Type: (See Attachment A to a Stat of valid options) N-PPL Status: (See Attachment A for a Stat of valid options) N-PPL Status: (See Attachment A for a Stat of valid options) N-PPL Status: (See Attachment A Prohibited Open Actions at Anti-verd Sites) Part N-PPL Status: (See Attachment A: Prohibited Open Actions at Anti-verd Sites) Archive See Attachment A: Prohibited Open Actions at Anti-verd Sites) Archive See Attachment A: Prohibited Open Actions at Anti-verd Sites) Archive See Attachment A: Prohibited Open Actions at Anti-verd Sites) Archive Date:				-		7
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REMEDIAL SITE ASSESSMENT DECISION - EPA REGION 3

IF

Site Name: Wei	rton Steel Chromic Acid Spills	EPA ID#: <u>WVN000305890</u>	DSN: WV-
City: We	irton, County:	Hancock County	State: WV
Refer to Report Dated: 08 Report developed by: W	/30/2007 VDEP		ORIGINATE PA
DECISION:			
2b. Activity F	Needed Under CERCLA: PA ESI HRS evalue	Other:	Higher Lower
DISCUSSION/RATIONALE:			
Weirton Steel Chromic Acid S 400 Three Springs Drive Weirton, Hancock County, WV 2	•	Longitude W -80.60306	· .
based on the following points: - the February 2008 HUD PC - the 2004 Weirton Steel Chr - the 11/30/2004 Weirton Ste - the EPA Emergency Respo - the state referral from Jami - the 2003 mitigation/ cleanu - the short term impact of the	omic Acid Spills' score equivalent (1 el Chromic Acid Spills's Preliminary anse sent an OSC e Fenke (WVDEP DWM inspector)	0.6 ; sw-20.95; soil-3.21; gw-0; <i>i</i> Assessment	
- document FINDS/ Federal I - map and add prior & curren - evaluate the need of direct - Collect organic & inorganic - Collect organic & inorganic	water suppliers, FINDS/ Federal Reg Register System results t analytical results to the map Push temporary wells for future asse samples of Surface water and the a samples of soil and the appropriate samples of groundwater and the ap	essment & Ground penetrating ra ppropriate backgrounds backgrounds	idar,
Matlock started investigating a s	lls came to EPA-Superfund attention tate referral from Jamie Fenke (WVI pill releasing (via the waste water tre ted hexavalent chromium, other met	DEP DWM inspector). The Weirto atment plant) to the Ohio River at	n Steel's pipe failure resulted mile point 62.5. Weirton
Steel Chromic Acid Spills' locati the one of the largest tin-mill pro	tory of spills and other activities which on generates both sheet and tin-mill oducers in the world. After 1996-200 enalties involving 3 governmental ago I Steel invested \$113 million for envir	products. Weirton Steel Chromic 0, Weirton Steel invested \$12.2 m encies, and \$1.6 million to improve	Acid Spills's location reflects illion for environmental its waste water treatment
The City of Weirton, West Viry The City of Steubenville, Ohio of City of Follansbee operates the with a newly drilled well that so operates an Ohio River intake of The Hammond Public Service Esystem's purchases their water.	ity to Weirton Steel reflects the follow ginia operates a Ohio River intake 2- perates an Ohio River intake 0.25-m Follansbee Well Field's the three we far shows no contamination (1991)> and serves 5,000 persons. The City district operates an Ohio River intake from the City of Steubenville's Ohio	miles downstream from the site ar iles downstream from the site & se ills present on site, <one beer<br="" has="">and serves 4,000 people. The Cit of Hammond operates the Hammond serves 2,239 persons. The J River intake—and serves 16,800 p</one>	erves 40,000 persons. The a shut down and replaced by of Hooverson Heights ond Public Service District. Lefferson County Water persons of which 2,759
Weirton Steel Chromic Acid S	pills' CERCLA file reflect a Novemb	er 2004 report.	
Report Reviewed/Approved and Site Decision Made By:	James J. Hargett Jr Site Assessment Manager	Signature:	Date:

Page 1 of 1

EPA ID: WVN000305890 Site Name: WEIRTO Alias Site Names:	ON STEEL CHROMIC ACID SPILLS	State IDRIGINAL
	County or Parish: HANCOCK	State: WV
	Report Type: PRELIMINARY ASSESSMENT 001	
Refer to Report Dated. 00/00/2007	teport Type.	
Report Developed by: STATE		
DECISION:		
because:	under CERCLA (Superfund) is not required	•
1a. Site does not qualify for further (No Further Remedial Action Plann	r remedial site assessment under CERCLA ed - NFRAP)	
1b. Site may qualify for action, but	is deferred to:	•
X 2. Further Assessment Needed Under	CERCLA:	
2a. Priority: Higher X Lower	,	
2b. Other: (recommended action)	Low	
DISCUSSION/RATIONALE:		
	plete - AC) Non-NPL status to the Weirton Steel Chromic Acid St	oills based on the
- the February 2008 HUD PCB Spill's decision - the 2004 Weirton Steel Chromic Acid Spills' score equiv the 11/30/2004 Weirton Steel Chromic Acid Spills's Preli	alent (10.6; sw-20.95; soil-3.21; gw-0; Air-0)	
- the EPA Emergency Response sent an OSC		
the state referral from Jamie Fenke (WVDEP DWM insp the 2003 mitigation/ cleanup of spill		
- the short term impact of the May 13-16, 2002 chromic a - the May 13-16, 2002 pipe failure resulted in 850-gallons	cid spill s of chromic acid spill	
Superfund recommends the following course of action : - map and add the details of water suppliers, FINDS/ Federal Register System results		
- map and add prior & current analytical results to the ma - evaluate the need of direct Push temporary wells for ful	p ture assessment - & Ground penetrating radar	
- Collect organic & inorganic samples of Surface water ar	nd the appropriate backgrounds.	
 Collect organic & inorganic samples of soil and the app Collect organic & inorganic samples of groundwater and 	ropriate backgrounds. I the appropriate backgrounds.	
- implement 2004 sampling recommendations	•	
investigating a state referral from Jamie Fenke (MM/DEP DW	attention in May 13-16, 2002 when an On-Scene Coordinator Den /M inspector). The Weirton Steel's pipe failure resulted in 850-gal River at mile point 62.5. Weirton Steel Chromic Acid Spills' reflecte compounds.	ions of chromic acid spill
Spills' location generates both sheet and tin-mill products. V	ties which may impact human health and the environment. Weirt Veirton Steel Chromic Acid Spills's location reflects the one of the million for environmental upgrades, paid \$3.2 million in penalties nent plant. After 1984-1996, Weirton Steel invested \$113 million f	involving 3 governmental
Steubenville, Ohio operates an Ohio River intake 0.25-miles Follansbee Well Field's the three wells present on site, <one (1991)="" contamination=""> and serves 4,000 people. The City of Hammond operates the Hammond Public Service District. The persons. The Jefferson County Water System's purchases which 2,759 persons live in the a 4-mile radius.</one>	ntake 2-miles downstream from the site and serves 35,000 persons downstream from the site & serves 40,000 persons. The City of has been shut down and replaced with a newly drilled well that so Hooverson Heights operates an Ohio River intake and serves the Hammond Public Service District operates an Ohio River intake their water from the City of Steubenville's Ohio River intake and	o far shows no 5,000 persons. The City of ke and serves 2,239 serves 16,800 persons of
Weirton Steel Chromic Acid Spills' CERCLA file reflect a Nov	vember 2004 report.	
		•
Site Decision Made by: JAMES HARGETT		Date: 12/30/2004
Signature:		Buil. 12/00/2007

ORIGINAL (RED)

POLREP #2 AND FINAL
WEIRTON WATER INTAKE
3031 BIRCH DRIVE (MILE POINT 65.2 OHIO RIVER)
WEIRTON, HANCOCK COUNTY, WV 26062
ATTN: CHARLIE KLEEMAN, GREGG CRYSTALL, AND ERD-OERR

- I. SITUATION (THURSDAY, 9/22/94, 1200 HOURS)
 - A. ON TUESDAY, 9/20/94, 0900 HOURS, OSC JACK DOWNIE WAS NOTIFIED BY OHIO RIVER VALLEY SANITATION COMMISSION (ORSANCO) PETER TENNANT, THAT BROMODICHLOROMETHANE, BROMOFORM, TOLUENE, AND OTHER UNKNOWN VOLATILE CONSTITUENTS WERE DETECTED IN THE WEIRTON, WV MUNICIPAL WATER TREATMENT PLANT (WTP) RAW WATER INTAKE. THE OSC UPDATED WVDEP AND DISPATCHED TAT TO CONDUCT AN OVERFLIGHT OF THE OHIO RIVER TO DOCUMENT ANY UNUSUAL DISCHARGE CONDITION. TAT DOCUMENTED A SHEEN EMANATING FROM AN OUTFALL AT THE WEIRTON STEEL PLANT. THE OSC THEN DIRECTED TAT TO COORDINATE ADDITIONAL ACTION WITH ORSANCO AND COLLECT SAMPLES THROUGHOUT THE AREA AROUND THE WEIRTON STEEL OUTFALL AND WEIRTON WATER INTAKE.
 - B. TAT COLLECTED A TOTAL OF FOUR SURFACE AND DEPTH SAMPLES. THE SAMPLES WERE DELIVERED TO THE WHEELING WATER TREATMENT PLANT FOR VOLATILE ORGANIC ANALYSIS AS PER ARRANGEMENTS MADE BY ORSANCO. ANALYSIS TO BE COMPLETED BY 9/21/94.

II. ACTIONS TAKEN

A. ON 9/21/94, AT 1430 HOURS, TAT RECEIVED A VERBAL NOTIFICATION FROM THE WHEELING TREATMENT PLANT REGARDING ANALYTICAL RESULTS OF THE FOUR WATER SAMPLES COLLECTED. ALL SAMPLE RESULTS WERE NON DETECTED FOR THE VOLATILE ORGANIC COMPOUNDS OF CONCERN.

III. FUTURE PLANS

- A. ORSANCO TO REASSESS THE ORGANICS DETECTION SYSTEM (ODS) AT THE WEIRTON WTP.
- B. OSC ANTICIPATES NO FURTHER EPA EMERGENCY RESPONSE ACTIONS AT THIS TIME.

JACK L. DOWNIE, OSC U.S. EPA - REGION III WHEELING, WV

CERCLIS CORRECTION / UPDATE FORM

ORIGINAL

TO:	Information Managemer	t Section (3HW14)	DATE:	12-20-96
FROM:	James J. Hargett Jr. Site Assessment Section	n (3HW33)		
SITE:	WEIRTON STEEL CYA	NIDE SPILL		
ID#:	WVD988803219	DSN:	WV-595	
A. CHAN	NGE OF NAME, ADDRESS	, OR OTHER IDENTI	IFYING INFORM	IATION (Explain.)
AR	CHIVE - ARCHIVE Date	12-01-96		
			,	
D ENTE	D NICWALINICODMATION / C	NIANCE INCOMAT	ION /Ell in one	
	R NEW INFORMATION / C	•	•	
Type of Action	Start Compl Date Dat			ifier* SIP Level** or G) (1, 2, or 3)
PA		, ,	•	•
SSI				
SIP				
ESI				
* allowable cod	es are N, L, H, or D for PAs, SSIs, and SIPs	; N or G (Prepare HRS Package)	for ESIs	**SIPs only
C. MERC	GE / DELETE (Explain.)			
		•		
D OTHE	R: CANCEL / HOLD / ETC	^ (Evolain)		
D. OHIL	H. CANCLE/ HOLD/ER	D. (Explain.)		•
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08/83; EPA / Region 3 / HWMD / SAS (KJW)



Red 4903

CERCLIS CORRECTION / UPDATE FORM

TO:	Information Management Section (3HW14)	DATE:	03-17-95
FROM:	James J. Hargett Jr. Site Assessment Section (3HW73)		
SITE:	WEIRTON STEEL CYNAIDE SPILL	,	
ID#:	WVD98880 292 2 DSN:	WV-595	
A CHAN	GE OF NAME, ADDRESS, OR OTHER IDENT	JEVING INEODMA	TION (Evoluin)
A. CHAN	GE OF NAME, ADDRESS, OR OTHER IDENT	IF FING INFORMA	HON (Explain.)
		ļ	
B. ENTE	R NEW INFORMATION / CHANGE INFORMAT	TION (Fill in appro	priate spaces.)
Type of	Start Completion Lead	Priority/Qualific	
Action	Date Date (F or S)	(N, L, H, D, or	G) (1, 2, or 3)
PA	O2-03-95 O2-28-95	. L	
SSI		:	
SIP		i P	
ESI		1	
allowable codes ar	e N, L, H, or D for PAs, SSIs, and SIPs; N or G (Prepare HRS Package) for ESIs		SIPs only
C. MERG	E / DELETE (Explain.)		,
		.	
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DIVISION OF ENVIRONMENTAL PROTECTION

GASTON CAPERTON GOVERNOR 1356 Hansford Street Charleston, WV 25301-1401

LAIDLEY ELI MC COY, PH.D. DIRECTOR

August 7, 1995

Mr. James Hargett USEPA Region III (3HW72) 841 Chestnut Building Philadelphia, Pennsylvania 19107

Dear Mr. Hargett:

Enclosed is a copy of the Weirton Steel Cyanide Spill Preliminary Assessment Report which was previously submitted during the second quarter of the 94-95 Cooperative Agreement. Please call me with questions concerning this transmittal at (304) 558-2745.

Sincerely

Rusty T. Joins

Engineering Technician

Site Investigation and Response Section

Office of Waste Management

Enclosure

RTJ/mlc

cc:

Brenda J. Wingate

Pamela D. Hayes

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PRELIMINARY ASSESSMENT LETTER REPORT

FOR

WEIRTON STEEL CYANIDE SPILL SITE,

WEIRTON, HANCOCK COUNTY,

WEST VIRGINIA

WV ~ 595

JANUARY 17, 1995

SITE INVESTIGATION AND RESPONSE SECTION
WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF WASTE MANAGEMENT

Prepared By:

Philin L. Keffer

Engineering Technician

Reviewed By:

Thomas W. Blake

Environmental Resources Program

Manager I

ORIGINAL (Red)

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- 6.0 Attachments:
 - A. Site Location Map (Figure 1)
 - B. Site Layout Map (Figure 2)
 - C. Waste Analytical Results (Figure 3)

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1.1 Authorization

This Preliminary Assessment (PA) Environmental Letter Report is prepared by the West Virginia Division of Environmental Protection - Office of Waste Management - Site Investigation and Response Section (WVDEP - OWM - SIR) under Cooperative Agreement (V-993229-01-0) with the United States Environmental Protection Agency (USEPA) Region III for the Weirton Steel Cyanide Spill site, WV-595, Weirton, Hancock County, West Virginia. Authorization is by Section 104 (Public Law 93-510 Seq.) of the Comprehensive Environmental Response Compensation and Liability Act of 1980 and by the Superfund Amendments and Reauthorization Act (SARA) of 1986.

2.1 Ownership History

1909 - 1929	Weirton Steel Company
1929 - 1983	Weirton Steel Division (WSX) National Steel Corporation (NSC)
1976 - 1982	NSC Used WSX As a Cash Cow WSX Facilities Harvested Down-sizing of Mill
1984 - Present	NEW ESOP Company Weirton Steel Corporation (WSC) Initial Public Offering 5/3/89

2.2 Site Location

The site is located in Weirton, Hancock, County, West Virginia at Mile Point 63 of the Ohio River. The geological coordinates for Mile Point (MP) 63 are 80°36'17" West Longitude and 40°24'50" North Latitude.

The Weirton Steel Corporation (WSC) is located in a urban section of Weirton, West Virginia, along the East bank of the Ohio River. Surrounding land uses include those of industrial, commercial, and residential. The WSC site is bordered by the Ohio River on its western side.

2.3 Site Layout

Control of access to the WSC facility is accomplished with chain link fencing around the entire 335 acre property. A site location map can be found in this report under Attachment A - Figure 1.

On July 14, 1993, at approximately 0500 Hours, a flange or gasket within the flange failed on the return plating line #4 between the

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Pre-Coat Tanks and the Distribution Tanks spraying 2,500 gallons of pickling solution into a catch basin which is directed to one of the facility's waste water treatment plant (WWTP) where, after a five hour retention/treatment time, it was discharged into the Ohio River. (1)

The solution contained:

- 1,000 pounds of Sodium Bifluoride,
 - 300 pounds of Stannous Chloride,
 - 6 pounds of Hydrochloric Acid
 - 55 pounds of Sodium Ferrocyanide.

(3)

The United States Environmental Protection Agency Weston Technical Assistance Team (USEPA TAT) was contacted by Mr. Dave Minda of WSC. USEPA Region III Technical Assistance Team (TAT) Senior On-Scene Coordinator (OSC) Downie dispatched a team on-site to investigate the incident. OSC Downie also contacted Ms. Cindy Rice of the United States Department of the Interior, Fish and Wildlife Service. Ms. Rice stressed the documentation of wildlife found within the spill area which could be potentially impacted, with a particular reference to birds.

TAT arrived on-site and met with the West Virginia Division of Natural Resources (WV DNR) representative Mr. Fenske. Mr. Fenske, who had been collecting routine water samples from the Ohio River in the area on the previous night, informed TAT that he had not noticed any stressed river wildlife while performing sample collection. (3)

As TAT began their investigation of the reported incident, there was a visible sheen surrounding NPDES Discharge Outlet #0003336. TAT obtained 6 Draeger Tube readings for Cyanide. Five tubes had negative results and one read 2.0 Mg/M₃. TAT then collected and preserved 12 water samples for Total Cyanide and Total Metals Analysis. These samples were collected at NPDES Discharge Outlet #0003336, as well as upstream and downstream. TAT observed no fish kill or stressed wildlife, although the sheen was visible from the Probable Point of Entry (PPE) at Ohio River Mile Point (MP) 63 downstream to MP 65. (3)

On July 15, 1993, TAT continued their investigation of the incident along the Ohio River spill site and still did not locate a fish kill or any stressed wildlife. The sheen on the Ohio River, which had been clearly observed on July 14, 1993 was no longer visible. (3) (See Attachment C - Figure 3 for Analytical Results.)

The broken line was repaired and Mr. Vignovic, a Weirton Steel Corporation representative, stated that a baffle would be installed to separate the pickling and scrubber areas from the pre-coat tanks, which would hamper any future occurrence of a similar situation. (2)

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2.4 Removal Actions To Date

There has been no remedial/removal actions to date. However, Weirton Steel Corporation has repaired the damaged flange which caused the spill to occur on July 14, 1993; therefore, forestalling future problems of the same nature at the incident site.

3.1 Water Supply

3.2 Ground Water and Hydrogeology

The nearest drinking water well is located approximately 3,500 feet Northeast of the site on Kings Creek. (1)(4)

The Hancock County, West Virginia Health Department (HCHD) identified well usage within a total of 4 areas in West Virginia. The areas which were identified are along Kings Creek, North Fork, Hudson Hill and Wiley Ridge Roads, and also in the area around Lyons Road. (1)(4)

There are 79 residences which use private wells located along Kings Creek. There are a few residences along the Ohio River, North of its confluence with Kings Creek which utilize private wells as their primary source of drinking water. The wells along Kings Creek are assumed to serve 194 persons. (1)(4)

There are 87 residences along North Fork Road and Hudson Hill Road with private drinking water wells. There is also North Fork Mobile Home Park which has a private water system supplied by a well. These wells are assumed to serve 213 persons. (1)(4)

There are 145 residences along Wiley Ridge Road, Northeast of the site with private water wells. According to the HCHD, this area has residences which utilize both private wells and public connections with the Weirton Municipal Water System. These wells are assumed to serve 355 persons. (1)(4)

There are 76 residences on Lyons Road with private water wells. These residences are also connected to the municipal water system. The HCHD stated that it is unlikely that these residences use private wells for drinking water due to sewage contamination of the area's ground water. It is assumed that 186 personal could utilize the aforementioned private wells on Lyons Road. (1)(4)

There are 11 other wells in use which are scattered throughout an unnamed area East of the site. Two of these wells are part of a private system which serves the Nells Mobile Home Park and one provides water to Callier Industries, Inc. The 11 wells are assumed to serve 22 persons. (1)(4)

Several residences in Washington County, Pennsylvania are located between 3 to 4 miles East of the site and are assumed to use private drinking well water. (1)(4)

There is insufficient information at this time to determine the ground water flow direction. However, wells located along the Ohio River and completed in the alluvial deposits are likely influenced by the river stage. Ground water flow in shallow hilltop and hillside wells completed in fractured bedrock formations is likely to follow overlying topographic features.

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3.3 Surface Water

It is assumed by the nature of the site and the regulated NPDES discharge points from the site that all of the approximately 335 acres of WSC is the drainage area for the site.

Weirton Municipal Water Board obtains its water from a surface water intake located approximately 3.1 miles South of the site, just below Ohio River MP 65. (1)(4)

The WSC facility obtains drinking water for the site from a surface water intake located 1.0 mile upstream near Ohio River MP 62. (1)(4)

The City of Steubenville, Ohio obtains drinking water from a surface water intake located 3.1 miles Southwest of the site below Ohio River Mile Point 65. (1)(4)

Hooverson Heights, West Virginia Public Water District obtains drinking water from a surface water intake located approximately 7.75 miles downstream of the site, above Ohio River Mile Point 71. (1)

The 4-mile radius study area encompasses approximately 1,279 acres of Riverine Wetlands Area. (1) This area consists of the Ohio River, which is designated as a Riverine Lower Perennial Open Water Non-Tidal Permanently Flooded Area. Wetland frontage is 30 miles within the site's 15-mile downstream study area.

There are wetlands located in West Virginia at Harmon Creek and the backwater areas at the mouths of Cross Creek and Buffalo Creek on the Ohio River. (1)(4)

The Harmon Creek wetlands, which are approximately located at Ohio River MP 66.5, encompass approximately 10 acres. Wetlands in this area are of the Palustrine System, Unconsolidated Bottom and Emergent Class. Water regime in this wetland is temporarily flooded and semi-permanently flooded. (1)

The Cross Creek embayment is located approximately at Ohio River Mile Point 71.5 and encompasses approximately 150 acres. Wetlands within this area are of the Paulstrine System, Unconsolidated Bottom, Scrub Shrub, and Emergent Class. The water regime in this wetland is temporarily flooded and semi-permanently flooded. (1)

The Buffalo Creek embayment is located approximately at Ohio River Mile Point 74.75 and is considered by the West Virginia Division of Natural Resources (WVDNR) - Wildlife Resources Section to be a high priority backwater area. (1) Beginning at the PPE, for the entire 15-mile downstream study area, the Ohio River is considered to be a fishery in addition to a high quality stream. Kings Creek, North, and upstream of the site, is considered a high quality stream and fishery. (1)(4)



3.4 Demographics

A geographic distribution of ground water wells and an estimated number of ground water users for the 4-mile study area is as follows: (4)

DISTANCE FROM SITE	# WELLS	ESTIMATED # OF USERS
On-site	0	0
0 - 1/4 mile	0	0
1/4 - 1/2 mile	21	53
1/2 - 1 mile	51	130
1 - 2 miles	146	369
2 - 3 miles	465	1,169
3 - 4 miles	772	1,942
TOTAL:	1,455	3,663

The above referenced numbers are based on professional judgement developed from information gathered from local water departments and the Hancock County Health Department. Therefore, the numbers in the above table are only estimates. The estimated populations are taken from the WV - Weirton Drum Disposal site.

The setting for the WSC site and study area is urban and suburban. Outlying areas in Hancock and Brooke Counties of West Virginia, as well as that of Washington County in Pennsylvania and Jefferson County in Ohio are predominantly rural. A population break down by mile is as follows: (4)

RADIUS DISTANCE FROM SITE	ESTIMATED POPULATION
On-site	0
0 - 1/4 mile	15
1/4 - 1/2 mile	635
1/2 - 1 mile	2,429
1 - 2 miles	10,895
2 - 3 miles	13,724
3 - 4 miles	9,303
TOTAL 0 - 4 MILES:	37,001

The estimated populations are taken from the WV - Weirton Drum Disposal site.

3.5 Critical Environment

The Cheat Minnow (Rhinichthys bowersi) has been identified in surface water within 4-miles of the site. The Cheat Minnow is ranked C2 in the State of West Virginia Natural Heritage Program, which means that the species is imperiled in the State with only 6 to 20 occurrences.

There are greater than 30 miles of wetland frontage within the 15-mile downstream study area. Approximately 1,171 acres of wetlands are situated within four miles of the site.

4.0 Waste Types and Quantities

On July 14, 1993, a flange or gasket at the Weirton Steel Corporation (WSC) plating line #4 failed which released 2,500 gallons of a pre-coating solution. This line, which is used to transport the pre-coating solution into the distribution tank, contained:

- 1,000 pounds of Sodium Bifluoride, 300 pounds of Stannous Chloride,
 - 6 pounds of Hydrochloric Acid
 - 55 pounds of Sodium Ferrocyanide. (3)

The failure and release allowed the solution to flow into a catch basin located beneath the pickling tank, scrubber tank, and four pre-coat tanks. From the catch-basin, the material flowed into one of WSC's waste water treatment plants which is located along the Ohio River near Mile Point (MP) 63. From the waste water treatment plant, the material was discharged to the Ohio River through a permitted discharge (#0003336). Therefore, the material is un-contained. (Attachment B - Figure 2) (2)(3)

14/1/AL

5.0 References

- 1. United States Geological Service (USGS) 7.5 Topograhical Maps of: Steubenville East, West Virginia Ohio; Steubenville West, Ohio West Virginia; Knoxville, Ohio; and Weirton, West Virginia, 1968.
- 2. Easton, James A., West Virginia Division of Environmental Protection Office of Waste Management: Spill Investigation Report of the Weirton Steel Cyanide Spill, July 14, 1993.
- United States Environmental Protection Agency Region III -Technical Assistance Team: Weirton Steel Cyanide Spill -POLREPS #'s 1, 2, and 3, July 14, 1993 through August 9, 1993.
- 4. Ecology and Environment, Inc., Arlington, Virginia: Environmental Site Assessment of the Weirton Drum Disposal Site, February 5, 1993.
- 5. Sargetn, Barbara, Environmental Resources Specialist, West Virginia Department of Natural Resources: "United States Natural Heritage Program Letter," November 17, 1994.

6.0 ATTACHMENTS:

- A. Site Location Map (Figure 1)
- B. Site Layout Map (Figure 2)
- C. Waste Analytical Results (Figure 3)

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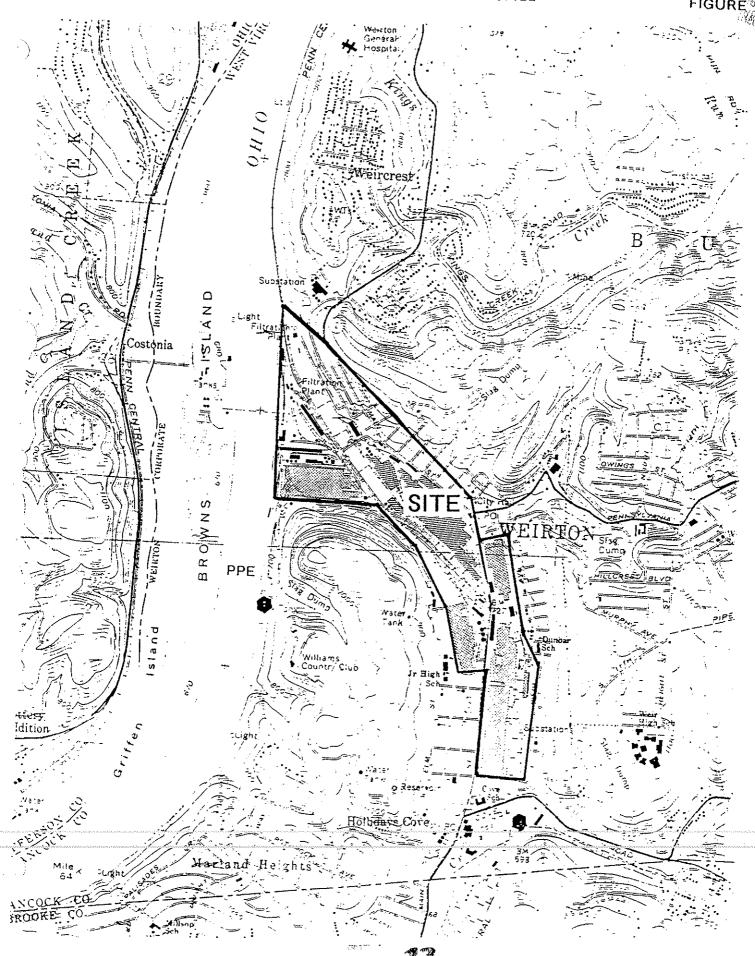
ATTACHMENT A

(Figure 1)

SITE LOCATION MAP

SITE LOCATION MAP WEIRTON STEEL CYANIDE SPILL

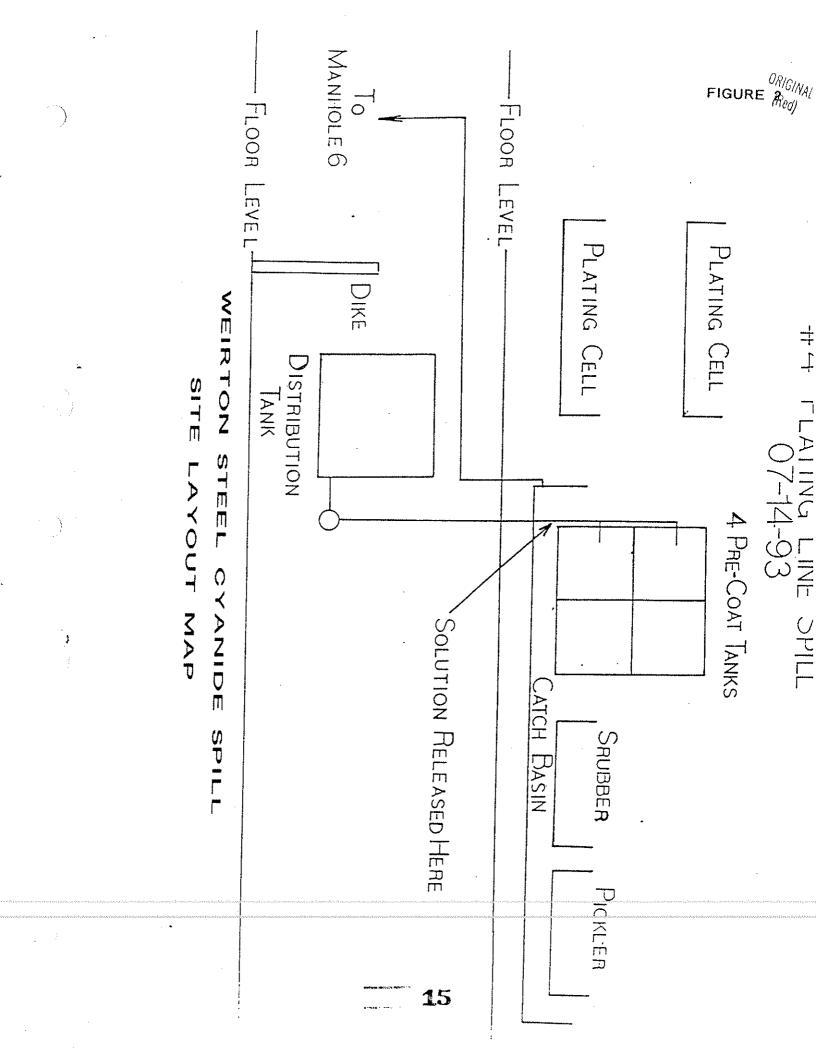
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ATTACHMENT B
(Figure 2)

SITE LAYOUT MAP



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ATTACHMENT C

(Figure 3)

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Arsenic	0.005	0.005		
Beryllium	ND	0.005		mg/l
Cadmium	ND	0.003		mg/l mg/l
Chromium	0.31	0.01		mg/l
Copper	ND	0.025		mg/1
Lead	ND	0.005		mg/1
Mercury	ND	0.0002		mg/l
Nickel	ND	0.04		mg/l
Selenium	ND	0.005		mg/l
Silver	ND	0.01		mg/1
Thallium	ND	0.005		mg/l
Zinc	0.41	0.02		mg/1

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Chromium	0.61			mg/l
Copper		0.01	•	mg/l
Lead	ND	0.025	.*	mg/l
Mercury	0.0052	0.005		mg/l
Nickel	ND	0.0002		mg/l
Selenium	ND	0.04		mg/l
	ND	0.005		mg/l
Silver	ND	0.01		mg/l
Thallium	ND	0.005		mg/l
Zinc	0.76	0.02		mg/l

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Chromium	ND	0.01		mg/l
Copper	ND	0.025		mg/l
Lead	ND	0.005		mg/1
Mercury	ND	0.0002		
Nickel	ND	0.04		mg/l
Selenium	ND			mg/l
Silver		0.005		mg/l
Thallium	ND	0.01		mg/l
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PARAMETER	RESULTS	MDL	QUAL	UNITS
Antimony	ND	0.01	3 , ••••	mg/1
Arsenic	ND	0.005		
Beryllium	ND	0.005		mg/l mg/l
Cadmium	0.013	0.003		mg/l
Chromium	ND	0.01		mg/l
Copper	0.061	0.025		mg/l
Lead	0.011	0.005		mg/l
Mercury	ND	0.0002		mg/l
Nickel	ND	0.04		mg/l
Selenium	ND	0.005		mg/l
Silver	ND	0.01		mg/l
Thallium	ND	0.005		mg/l
Zinc	0.093	0.02		mg/1

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N/A See Laboratory Chronicle





DIVISION OF ENVIRONMENTAL PROTECTION

GASTON CAPERTON GOVERNOR 1356 Hansford Street Charleston, WV 25301-1401

DAVID C. CALLAGHAN DIRECTOR

February 3, 1995

Mr. James Hargett (3HW72) USEPA Region III 841 Chestnut Building Philadelphia, Pennsylvania 19107

Dear Mr. Hargett:

Enclosed is the Draft Preliminary Assessment Letter Report for the Weirton Steel Cyanide Spill Site, WV-595, Weirton, Hancock County, West Virginia.

On July 14, 1993, a flange or gasket in the Weirton Steel Corporation number four plating line failed causing a release of 2,500 gallons of a pre-coating solution containing sodium ferrocyanide. The solution entered the on-site waste collection system which directed the spill to the facility's waste water treatment plant and was then discharged to the Ohio River.

Following the release, USEPA Region III Technical Assistance Team (TAT) performed a visual survey and observed an oily sheen on the Ohio River. In addition to the visual survey, TAT collected samples from the Ohio River near the discharge point. Two of the samples indicated the presence of cyanide up to 0.021 mg/l.

According to West Virginia Division of Environmental Protection (WVDEP) records, similar spills have occurred at the Weirton Steel Corporation facility prior to and following the July 14, 1993, spill. Due to the frequency and nature of the spills, an order was issued by WVDEP which requires the facility to pay penalties based on the type and size of the spill.

Based on the penalty assessments, outlined in the order issued by West Virginia Division of Environmental Protection, the limited affect caused by this spill, and the subsequent dilution of the material after-reaching the Ohio River, it is recommended that no further CERCLA Pre-Remedial Site Assessment action be taken at this site.

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Mr. James Hargett February 3, 1995 Page 2.

You may direct your comments to Mr. Philip L. Keffer or me at (304) 558-2745.

Sincerely,

Rusty T. Joins

Engineering Technician

Site Investigation and Response Section

Office of Waste Management

Enclosure

RTJ/mle

cc: Pamela D. Hayes

Brenda J. Wingate